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| 10/701,190 | 11/04/2003 | Edward R. diGirolamo | 4782-042 | 5075 |
| 24112 7590 02/08/2007 COATS & BENNETT, PLLC 1400 Crescent Green, Suite 300 Cary, NC 27518 | | | EXAMINER DREIDAME, HUNTER M | |
| | | | ART UNIT 3635 | PAPER NUMBER |
| SHORTENED STATUTORY PERIOD OF RESPONSE | | | MAIL DATE | DELIVERY MODE |
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/701,190

Applicant(s)

DIGIROLAMO ET AL.

Examiner

Hunter M. Dreidame

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12/1/2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☒ Other: Marked Figure.

DETAILED ACTION

Claim Status

The indicated allowability of claims 1 – 25 as discussed in a telephone call made to Larry Coats on January 16, 2007 is withdrawn in view of the newly discovered reference(s) to US Patent 4,912,894 to Platt. Rejections based on the newly cited reference(s) follow.

Claim Objections

Claims 1 – 6 are objected to.

Regarding claim 1, the language between the preamble and portions of the body of the claim are inconsistent. For example, the preamble of claim 1 sets for the subcombination "stud spacer"; however, lines 5 and 6 of the claim recite "wherein the projections of the main member interlock with similar projections of other main members" which sets forth a positive relationship between multiple stud spacers and thus appears to claim a combination.

For purposes of examination, claim 1 is being treated as a combination.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1 – 25 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 4,912,894 to Platt.

Claim 1:

Platt discloses an interlocking cross tee (Fig. 1) capable of extending between two studs (17, Fig. 1) comprising a main member (25, Fig. 1) adapted to extend between two studs; the main member including first and second end portions (see marked figure); a projection (33, Fig. 1) extending from each end portion; and wherein the projections of the main members interlock (Fig. 4) with similar projections of other main members.

Claim 2:

The stud spacer of claim 1 wherein each projection includes a locking surface (53, Fig. 5), an opening (59, Fig. 5), a deflector (57, Fig. 5) disposed adjacent the opening, and a stop (51, Fig. 5).

Claim 3:

The stud spacer of claim 2 wherein when two projections are interlocked, the locking surface of one projection engages the stop of the other projection (Fig. 4)

Claim 4:

The stud spacer of claim 1, wherein each projection is elongated and when connected to a similar projection at least partially overlies or underlies the similar projection (Fig. 4).

Claim 5:

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The stud spacer of claim 1, wherein each of the two projections includes a deflectable terminal end (59, Fig. 5) and an opening (57, Fig. 5).

Claim 6:

The stud spacer of claim 1 wherein each projection includes a terminal end portion (see marked figure), a locking tab (41, Fig. 5) disposed on the terminal end portion, a deflector (59, Fig. 5) disposed inwardly of the locking tab; an opening (57, Fig. 5) formed in the projection adjacent the deflector; and a stop (51, Fig. 5) disposed inwardly of the opening.

Claim 7:

Platt discloses a stud spacer assembly (Fig. 1) for extending between a series of studs (17, Fig. 1), comprising at least first and second stud spacers (25, Fig. 1), said first stud spacer including a first projection (33, Fig. 1) and said second stud spacer including a second projection (33, Fig. 1), said first and second projections adapted to interlock so as to connect the first and second stud spacers together (Fig. 4), and wherein each projection includes a locking surface (53, Fig. 5) and a stop (51, Fig. 5) and wherein when interlocked, the locking surface of the first projection is engaged with the stop of the second projection and the locking surface of the second projection is engaged with the stop of the first projection (Fig. 4).

Claim 8:

The stud spacer assembly of claim 7 wherein when connected the first and second projections overlies each other (Fig. 4).

Claim 9:

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The stud spacer assembly of claim 8 wherein each projection includes an opening (59, Fig. 5) and wherein when connected the first projection extends through the opening of the second projection and the second projection extends through the opening of the first projection (Fig. 4).

Claim 10:

The stud spacer assembly of claim 9 wherein at least a portion of each projection is at least slightly yieldable such that a portion of each projection can slightly flex during the course of interconnecting the projections (Figs. 5 and 6).

Claim 11:

The stud spacer assembly of claim 7 wherein each projection includes an opening (59, Fig. 5) and a deflector (57, Fig. 5) and wherein the locking surface of each projection is formed on a terminal end portion (see marked figure) of the projection and wherein when connected the terminal end portion of the first projection projects through the opening in the second projection and the terminal end portion of the second projection projects through the opening in the first projection (Fig. 4).

Claim 12:

The stud spacer assembly of claim 11 wherein the deflector of the first projection deflects the terminal end of the second projection through the opening of the first projection and wherein the deflector of the second projection deflects the terminal end of the first projection through the opening in the second projection (Fig. 4).

Claim 13:

The stud spacer assembly of claim 7 wherein the locking surface includes a tab (41, Fig. 5) and the stop includes a tab receiving opening (59, Fig. 5) and wherein when the first and second projections are interconnected the first projection is extended over a portion of the second projection and a portion of the first projection is inserted through the opening in the second projection such that the locking tab of the first projection seats within the tab receiving opening formed in the second projection and wherein the second projection is extended underneath a portion of the first projection and a portion of the second projection is inserted through the opening in the first projection wherein the locking tab of the second projection seats within the tab receiving opening of the first projection (Fig. 4).

Claim 14:

The stud spacer of assembly of claim 13 wherein each projection includes a deflector (57, Fig. 5) disposed adjacent the tab receiving opening and wherein the deflector on the first projection deflects a portion of the second projection upwardly through the opening in the first projection, and wherein the deflector in the second projection deflects a portion of the first projection downwardly through the opening in the second projection (Fig. 4).

Claim 15:

The stud spacer assembly of claim 7 wherein the locking surface of each projection includes a tab (41, Fig. 5) and wherein the stop of each projection includes a tab receiving opening (59, Fig. 5) and when the projections are connected the respective tabs are seated within the tab receiving openings (Fig. 4).

Claim 16:

Platt discloses a wall structure (Fig. 1), comprising a series of spaced apart studs (17, Fig. 1) with each stud having an opening (18, Fig. 1) formed therein, a series of stud spacers (25, Fig. 1) extending between respective studs; each stud spacer including first and second projections (33, Fig. 1) that extend from opposite ends of the stud spacer; said first and second projections of each stud spacer adapted to connect to first and second projections of other stud spacers so as to interconnect the stud spacers of the wall structure (Fig. 4); and each projections including a locking surface (53, Fig. 5) and a locking stop (51, Fig. 5) and wherein when interconnected the locking surface of the first projection is engaged with the locking stop of the second projection and the Locking surface of the second projection is engaged with the locking stop of the first projection (Fig. 4).

Claim 17:

The wall structure of claim 16 wherein when connected the respective projections at least partially overlies one another (Fig. 4).

Claim 18:

The wall structure of claim 17 wherein the first projection includes a terminal end portion (see marked figure) and an opening (59, Fig. 5) and the second projection includes a terminal end and an opening (59, Fig. 5) and wherein the terminal end portions of the respective projections are projected through the openings within the projections when the projections are interconnected (Figs. 2 – 4).

Claim 19:

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Platt discloses a method of interconnecting a first stud spacer (25, Fig. 1) with a second stud spacer (25, Fig. 1) extending between studs (17, Fig. 1) in a wall structure (Fig. 1) wherein the first stud spacer includes a first projection (33, Fig. 1) and the second stud spacer includes a second projection (33, Fig. 1), comprising the steps of projecting the first projection through an opening (59, Fig. 5) in the second projection and engaging a locking surface (53, Fig. 5) associated with the first projection with a stop (51, Fig. 5) associated with the second projection, and projecting the second projection through an opening in the first projection and engaging a locking surface (53, Fig. 5) associated with the second projection with a stop (51, Fig. 5) associated with the first projection (shown in Figs. 2 – 5).

Claim 20:

The method of claim 19 including engaging the first projection with a deflector (57, Fig. 5) associated with the second projection and deflecting the first projection through the opening in the second projection, and engaging the second projection with a deflector (57, Fig. 5) associated with the first projection and deflecting the second projection through the opening in the first projection (shown in Figs. 2 – 5).

Claim 21:

The method of claim 20 including at least slightly bending a portion of each projection as the two projections are interconnected (Fig. 4).

Claim 22:

The method of claim 21 wherein the projections are at least slightly flexed in response to engaging the respective deflectors carried by the projections (Fig. 4).

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Claim 23:

The method of claim 19 wherein the locking surfaces comprise locking tabs (41, Fig. 5) and wherein the stops comprises locking seats (see marked figure) and wherein when the projections are interconnected the locking tabs of the respective projections are seated within the locking seats of the projections (Fig. 4).

Claim 24:

The method of claim 19 including contacting a terminal end (see marked figure) of the first projection with a deflector (57, Fig. 5) disposed on the second projection and deflecting the terminal end of the first projection downwardly through the opening in the second projection, and contacting a terminal end portion (see marked figure) of the second projection with a deflector (57, Fig. 5) on the first projection and deflecting the terminal end of the second projection upwardly through the opening in the first projection (Fig. 4).

Claim 25:

The method of claim 24 wherein the locking tabs carried by the first and second projections snap into the tab receiving openings once the terminal ends of the respective projections have been inserted through the openings in the respective projections (Fig. 4).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hunter M. Dreidame whose telephone number is (571)272-5177. The examiner can normally be reached on Monday - Friday 8am - 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Friedman can be reached on (571)272-6842. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



HD

Robert Canfield
Primary Examiner

